

Abstract

[0063] A simulation system and method enabled through the use of an XML-based Simulation Reference Markup Language (SRML) and a corresponding system runtime environment. The simulation system comprises a simulation reference simulator adapted to receive an SRML simulation model including a simulation item. The simulation reference simulator comprises an item manager for loading properties of each item of the simulation model, and an event manager for processing the simulation model. A method of conducting simulations comprises the steps of defining a simulation model with Simulation Reference Markup Language, communicating the model to a simulation reference simulator, executing the model with the simulation reference simulator, and providing an output of the modeled events.